

Join us on the second Thursday of every month for a series of "brown bag" seminars sponsored by the National Renewable Energy Laboratory and the U.S. Department of Energy. Each seminar is held at NREL's Washington offices with a video-conference link to Golden, Colorado. Topics focus on new and innovative renewable energy and energy analysis strategies, models, and technologies.



## Energy Analysis Seminar Series

A "brown bag" analytical seminar series

### Transportation Study Examines Evolution of Fuels, Technology

Elyse Steiner, Analyst  
National Renewable Energy Laboratory  
Thursday, March 13, 2003  
Noon-1 p.m.

Interested in learning more about the North American transportation market and its dependence on petroleum-based fuels? The 2000-2050 North American Transportation Energy Futures Study, a joint effort of the U.S. Department of Energy and Natural Resources Canada, looks at the evolution of transportation fuels and vehicle technologies. The goals of the study are to: (a) develop and understand the evolution of the North American transportation sector to 2050 under three scenarios; (b) identify the technology and fuel options that may be important to these evolutions; and (c) analyze the costs and potential energy consumption, especially of petroleum, and the environmental impacts of the scenarios relative to a base case.

The study explores questions regarding the predicted decline of conventional oil supplies; the implications, economic and otherwise, of a transition from conventional oil to alternative feedstocks and/or energy carriers; the options available to minimize risks or negative consequences associated with North America's reliance on imported oil; and how North America can achieve lower greenhouse gas emission levels that might be required in the future. After reviewing results, analysts identified areas that still deserve further attention and are envisioning a continuation of this study.

**Elyse Steiner** joined NREL in August 2001 to work in energy and transportation-sector analysis. She has supported benefits modeling for the Department of Energy's Office of Energy Efficiency and Renewable Energy and serves as a member of a multilab analytic team. As part of this team, Steiner has coauthored presentations and papers for the SAE Government/Industry Meeting, the Transportation Research Board's Annual Meeting, and FutureCar Congress. Prior to joining NREL, Steiner worked at the Department of Transportation Federal Railroad Administration, analyzing the energy use and environmental impacts of various passenger transportation modes. She also worked as an IT consultant at Price Waterhouse in Chicago for several years, implementing new information systems and business processes for private-sector clients in several industries. Steiner has a bachelor's degree in international relations, a master's in business administration, and a master's in natural resources, all from the University of Michigan in Ann Arbor.



Elyse Steiner

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